

<p align="center">XII IMAGE ENHANCEMENT</p>	<p align="center">Page 1 of 1</p>
<p align="center">Division of Forensic Science</p> <p align="center">IMPRESSION UNIT PROCEDURES MANUAL</p>	<p align="center">Amendment Designator:</p>
	<p align="center">Effective Date: 31-March-2004</p>
<div data-bbox="664 296 1036 323" data-label="Section-Header"> <p align="center">XII IMAGE ENHANCEMENT</p> </div> <div data-bbox="152 357 422 384" data-label="Section-Header"> <p>12.1 INTRODUCTION</p> </div> <div data-bbox="209 417 1544 632" data-label="Text"> <p>Image processing requires a thorough understanding of the principles of photography. Photographic lighting techniques, filtration, film properties and processing chemical/techniques can all be accomplished through digital imaging. The electronic manipulation of the images, once captured, can be done with various types of hardware and software and is termed image enhancement. Currently available software provides many ways to improve contrasts or remove background interference and thereby improve the captured image. An application such as Fast Fourier Transformation (FFT) allows the examiner to enhance ridge structure while decreasing background interference. Improvements in image storage and in output or printing devices have increased the utility of imaging for impression casework.</p> </div> <div data-bbox="209 661 1544 844" data-label="Text"> <p>The sophistication and the rapid changes seen in the computer industry have made understanding of imaging an arduous task. However, the potential for obtaining results previously unattainable makes this technology an exciting area to be explored. The use of the specific software and hardware available for each imaging system is described in the training/operations manual provided for each system. To be proficient in the use of the imaging equipment available requires the examiner to be familiar with the operations of the hardware and software. To become an expert in its operation requires extensive understanding of the individual system and possible applications though training and experience.</p> </div> <div data-bbox="209 873 885 903" data-label="Text"> <p>When to request image enhancement is at examiners discretion.</p> </div> <div data-bbox="1490 936 1544 963" data-label="Text"> <p align="right">◆End</p> </div>	